

ABSTRACT OF THE DISCLOSURE

A dynamic control diffraction grating for dynamically
varying a light amount ratio of a zero-order diffracted beam
5 of light to high-order diffracted beams of light. The dynamic
control diffraction grating comprises a voltage-dependent
phase varying material for transmitting a beam of light
therethrough and varying the phase of the transmitted light
beam in response to external voltages applied thereto, the
10 voltages having different levels and being applied to the
phase varying material at regular intervals in a comb form.